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WATER SUPPLY OUTLOOK FOR UTAH

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Prepared by

U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

UTAH STATE DEPARTMENT OF NATURAL RESOURCES -- DIVISION OF WATER RIGHTS

In cooperation with U.S. Forest Service, Bureau of Reclamation, Utah Fish and Game Dept., Utah State University, U.S. National Park Service, U.S. Geological Survey, and other Federal, State, and private organizations.

AS OF
MAR. 1, 1972

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters of key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO NUMBER ORC 221-3

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 701 N. W. Glisan, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	P. O. Box "F", Palmer, Alaska 99645
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 970, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84111
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

KENNETH E. GRANT

ADMINISTRATOR
SOIL CONSERVATION SERVICE
WASHINGTON, D.C.

|||||

Released by

A. W. HAMELSTROM

STATE CONSERVATIONIST
SOIL CONSERVATION SERVICE
SALT LAKE CITY, UTAH

In Cooperation with

HUBERT C. LAMBERT

STATE ENGINEER
DIVISION OF WATER RIGHTS
UTAH STATE DEPT. OF NATURAL RESOURCES

|||||

Report prepared by

BOB L. WHALEY, Snow Survey Supervisor

SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
FEDERAL BLDG., ROOM 4012
SALT LAKE CITY, UTAH 84111



PROSPECTIVE WATER SUPPLIES

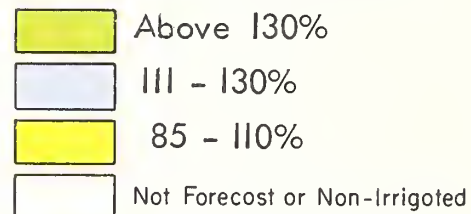
Based on Snow Surveys Made on
UTAH and BEAR RIVER WATERSHEDS

March 1, 1972

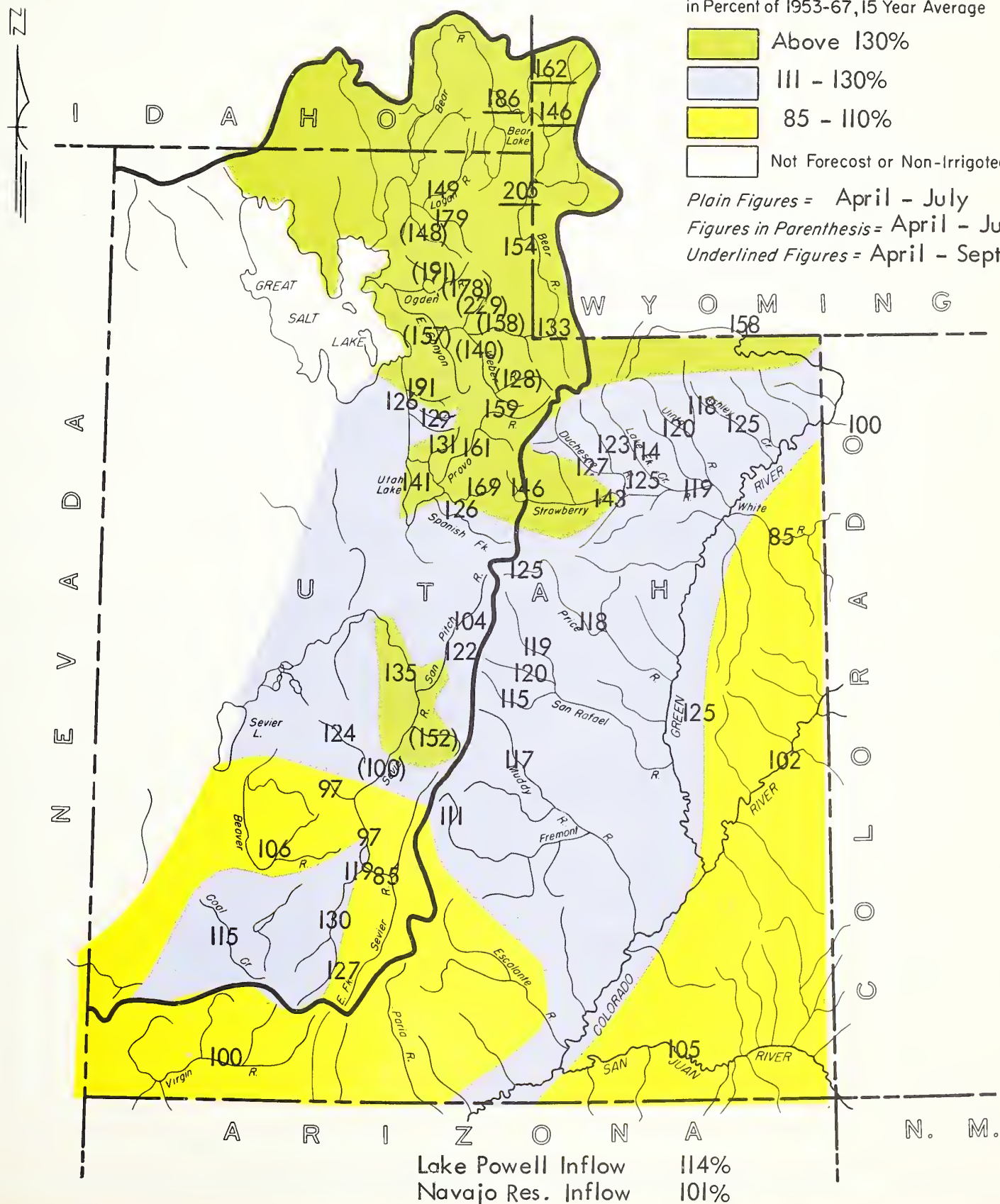
Approximate Date



FORECAST STREAM FLOW
in Percent of 1953-67, 15 Year Average



Plain Figures = April - July
Figures in Parenthesis = April - June
Underlined Figures = April - Sept.



Lake Powell Inflow 114%
Navajo Res. Inflow 101%



WATER SUPPLY OUTLOOK

as of

MARCH 1, 1972

* * * * *

* The 1972 Water Supply Outlook for Utah remains "average" to *
* "excellent". Snow cover ranges from near average in Central *
* and Southern Utah to well above average in Northern Utah. *
* Reservoir storage is above average and streamflow forecasts *
* range from near average to twice average. *

* * * * *

Snow Cover ranges from 97% of the March 1 average on Ephraim Creek in Central Utah to 176% of average on Lost Creek in Northern Utah. Precipitation was generally very light during the month in southern Utah and coupled with warmer than average temperatures, many snow courses lost water content instead of making their usual February gains. Snow courses in the remainder of the State did not lose water content but had less than average increases except on the Upper Ogden watershed and Lower Bear River area in Wyoming and Idaho where above average increases were measured.

Reservoir Storage in 14 principal reservoirs (excluding those of the Colorado River Storage Project) increased 29,960 a. f. during February and is now 143% of the March 1 average for the 1953-67 15-year period. The three Sevier River reservoirs (Otter Creek, Piute and Sevier Bridge) contained 268,650 a.f. or 193% of their March 1 average.

Colorado River storage decreased 5,400 a.f. during the month and is now 54% of capacity.

Great Salt Lake The elevation of Great Salt Lake was 4,198.80 feet above mean sea level, 2.00 feet higher than a year ago, and 7.45 feet above the alltime record low of October 1963. The lake rose 0.45 foot during the month and is 0.65 foot above the high of last year which occurred July 1. This was the highest level reached by the lake since July 1954 according to the U.S. Geological Survey.

Streamflow Forecasts now range from 85% of average for Minersville Reservoir Inflow and the East Fork of the Sevier to better than twice average for Lost Creek, Big Creek, and the Bear River near Randolph. South Fork of the Ogden is expected to produce 178% of its April-June average and the Inflow to Pineview Reservoir is forecast at 189% of average. The Lower Bear near Harer is expected to be 186% of the April-September average, the Logan River 149% and the Blacksmiths Fork 179% of the April-July average. The Inflow to Utah Lake is expected to be 141% of average and the Provo at Hailstone 159% of the April-July average. Uintah Basin forecasts range from 118% on Whiterocks to 143% on the Strawberry at Duchesne.

The Inflow to Flaming Gorge Reservoir is forecast at 158% of the April-July average and Lake Powell Inflow is expected to be 114% of average.

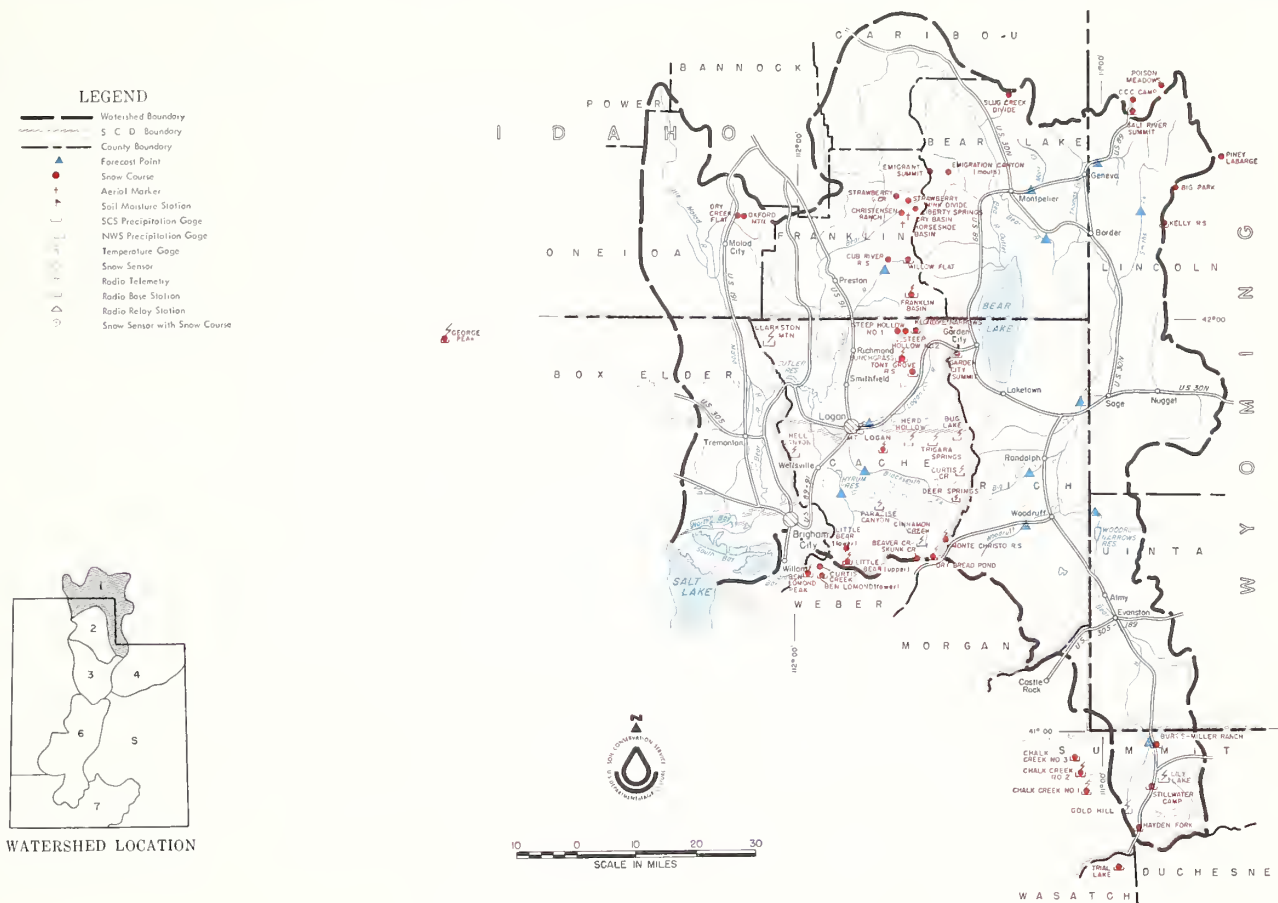
WATER SUPPLY OUTLOOK (continued)

Price and San Rafael River forecasts range from 115% on Ferron and Gooseberry Creek to 125% for Scofield Inflow. Sevier River forecasts range from 85% on the East Fork to 162% for the Inflow Vermillion to Gunnison. Beaver River is forecast at 95% of average, Coal Creek 115% and the Virgin River 100%.

WATER SUPPLY OUTLOOK

BEAR RIVER BASIN in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



MARCH 1, 1972

The 1972 Water Supply Outlook for Bear River Basin is "Excellent".

Snow Cover now ranges from 137% of the March 1 average above Evanston to 162% on the Malad in Idaho. The lower Bear including the Smith's Fork averages about 150%. Logan River snow cover is now 138% of average or about 10% less than last year at this time. Blacksmith Fork-Little Bear snow cover is now 154% of the March 1 average. Most snow courses on the lower Bear in Idaho and Wyoming received above average February increases while those on the upper Bear had less than average increases in water content.

Reservoir Storage is above average (124%) in Bear Lake and Woodruff Narrows is still full, 149% of its March 1 average. Hyrum had 10,800 a.f. and Porcupine 3,200 a.f. on March 1.

Streamflow Forecasts raised 9 to 22% on the lower Bear in Idaho and Wyoming due to above average increases to the snow pack but dropped as much as 19% on other tributaries. The Thomas Fork is forecast to produce 51,000 a.f. (162%), Smith's Fork 158,000 a.f. (146%) and the Bear at Harer, Idaho, 420,000 a.f. (186%) during the April-September period. The Bear at Utah-Wyoming Line is expected to flow 141,000 a.f. (133%) and at Woodruff 160,000 a.f. (154%). Big Creek is expected to produce 10,000 a.f. (208%) and Woodruff Creek 25,000 a.f. (185%) which combines with the Bear below Woodruff to make the expected flow at Randolph 150,000 a.f. (205%) during the April-July period.

Logan River is expected to produce 148,000 a.f. (149%), Blacksmith Fork 75,000 a.f. (179%) during the April-July period and Little Bear 62,000 a.f. (148%) during the April-June period. Peak flows of streams in this area are expected to be higher than average again this year.

MARCH 1, 1972

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>BEAR RIVER SYSTEM</u>					
Bear at Harer, Idaho (1)	420	186	Apr-Sept	138	226
Bear nr Randloph	150	205	Apr-July		73
Bear nr Ut-Wyo. State Line	141	133	Apr-July		106
Bear nr Woodruff	160	154	Apr-July		104
Big Crk nr Randolph, Utah	10.0	208	Apr-July	99	4.8
Blacksmith Fork nr Hyrum	75	179	Apr-July		42
Little Bear nr Paradise	62	148	Apr-June	203	42
Logan nr Logan (1)	148	149	Apr-July		99
Smith's Fork nr Border, Wyoming	158	146	Apr-Sept		108
Thomas Fork nr Ut-Wyo State Line	51	162	Apr-Sept		31
Woodruff Crk nr Woodruff, Utah	25	185	Apr-July		13.5

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Bear River</u>	Bear Lake	1421.0	1081.3	1095.2	871.4
	Woodruff Narrows	26.5	26.5	26.5	17.8b
<u>Little Bear</u>	Hyrum	15.3	10.8	10.6	11.0
	Porcupine	11.3	3.2	6.3	--

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Big Creek near Randolph	83 - 123	43
Logan River near Logan	1025 - 1400	911
Woodruff Creek nr Woodruff	273 - 449	220

- (1) - Observed flow corrected for change in storage and diversions
- (3) - Data obtained by radio - USU-SCS cooperative sites
- b - Average of all past records within the 15-yr period, but less than 15 years.
- x - Adjacent drainage
- * - Partly estimated

BEAR RIVER BASIN

SNOW

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
UPPER BEAR RIVER (Above Harer, Idaho)						
Big Park x	8700	2/25	78	24.3	26.0	16.8
CCC Camp x	7500	2/28	48	15.8	17.3	10.2
Chalk Creek #1 x	9100	2/24	64	22.2	24.4	17.7*
Chalk Creek #2 x	7900	2/24	48	15.2	15.3	11.1
Chalk Creek #3 x	7500	2/24	30	9.0	8.1	6.1
Kelly Ranger Station	8200	2/25	71	22.6	22.3	15.2*
Monte Cristo R. S.	8960	2/28	83	31.7	34.4	20.2*
Piney LaBarge #2	8820	2/26	90	29.5	28.6	- -
Poison Meadows x	8500	2/26	116	36.4	36.6	24.4*
Salt River Summit x	7900	2/28	63	21.4	21.6	13.3
Smith & Morehouse x	7600	2/25	46	14.3	13.0	10.1
Trial Lake x	9800	2/29	84	27.9	28.5	20.7
LaBarge G. S.	9500	2/26	112	37.2	38.7	- -
LOWER BEAR RIVER (Below Harer, Idaho)						
Beaver Creek-Skunk Creek	7150	2/28	44	15.6	12.8	9.6
Christensen Ranch	5600	2/28	27	7.6	10.6	7.3*
Cub River R. S.	5400	2/28	27	8.5	10.2	7.5*
Dry Bread Pond x	8230	2/28	59	21.0	20.7	14.3
Dry Creek Flat	6350	2/28	28	10.1	10.8	6.2*
Emigration Canyon	6500	2/25	50	14.7	13.0	8.6*
Emigrant Summit	7350	2/25	82	28.7	31.6	19.2*
Garden City Summit	7600	2/23	62	21.8	20.8	15.1
Klondike Narrows	7400	2/23	64	23.0	25.2	16.7b
Little Bear (lower)	6000	2/25	37	11.4	11.8	7.6b
Little Bear (upper)	6550	2/25	46	15.6	13.4	9.4b
Monte Cristo R. S.	8960	2/28	83	31.7	34.4	20.2*
Oxford Mountain	6800	2/28	38	12.9	11.5	8.0*
Slug Creek Divide	7225	2/25	61	19.0	19.4	13.1*
Steep Hollow #1	8500	2/23	102	37.7	45.8	29.4b
Steep Hollow #2	7700	2/23	80	29.0	31.2	22.4b
Strawberry Creek	5800	2/28	36	11.9	12.4	9.3*
Strawberry Mink Divide	6800	3/1	67	25.9	25.8	17.2*
Tony Grove R. S.	6250	2/23	47	16.8	14.1	9.5
Willow Flat	6100	2/28	47	16.9	18.3	12.7*
Liberty Spring	8600	3/1	113	43.4	46.9	- -

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
Chalk Creek #1 x	9100	3/2	2.23	- -	22.80	- -	- -
Chalk Creek #2 x	8000	2/29	1.24	3.02b	15.94	11.82*	135
Chalk Creek #3 x	7500	2/24	0.88	1.82b	13.95	10.19b	137
Cinnamon Crk. (3)	7300	2/29	1.57	- -	18.89	- -	- -
Curtis Creek (3)	8450	2/29	3.87	- -	27.87	- -	- -
Dry Bread Pond	8230	2/28	2.35	4.47*	21.23	16.22*	131
Franklin Basin (3)	8000	2/29	5.03	- -	25.99	- -	- -
Garden City Summit	7600	2/23	2.38	3.22*	21.82	14.74	148
Gold Hills (3)	10000	2/29	2.54	- -	22.85	- -	- -
Kelly R. S.	8200	2/25	2.60	- -	21.00	- -	- -
Klondike Narrows	7400	3/2	5.31	5.24b	26.45	19.39	136
Little Bear (upper)	6850	2/29	1.13	- -	23.89	15.36	156
Monte Cristo #2 (WB)	8960	2/28	3.11	4.94b	27.66	19.68	141
Sagebrush Flat x	6300	2/28	1.31	2.48b	16.77	10.76	156
Salt River Summit	7900	2/28	2.70	3.51b	19.45	12.98	150
Tony Grove R. s. (SCS)	6250	2/29	2.78	3.10	26.50	14.09*	188
Trial Lake x	9800	2/29	2.60	4.47	12.82	17.36	74
Willow Flat	6100	2/28	2.26	4.72*	22.10	17.52	126
Clarkston (3)	6300	2/29	1.64	- -	22.85	- -	- -

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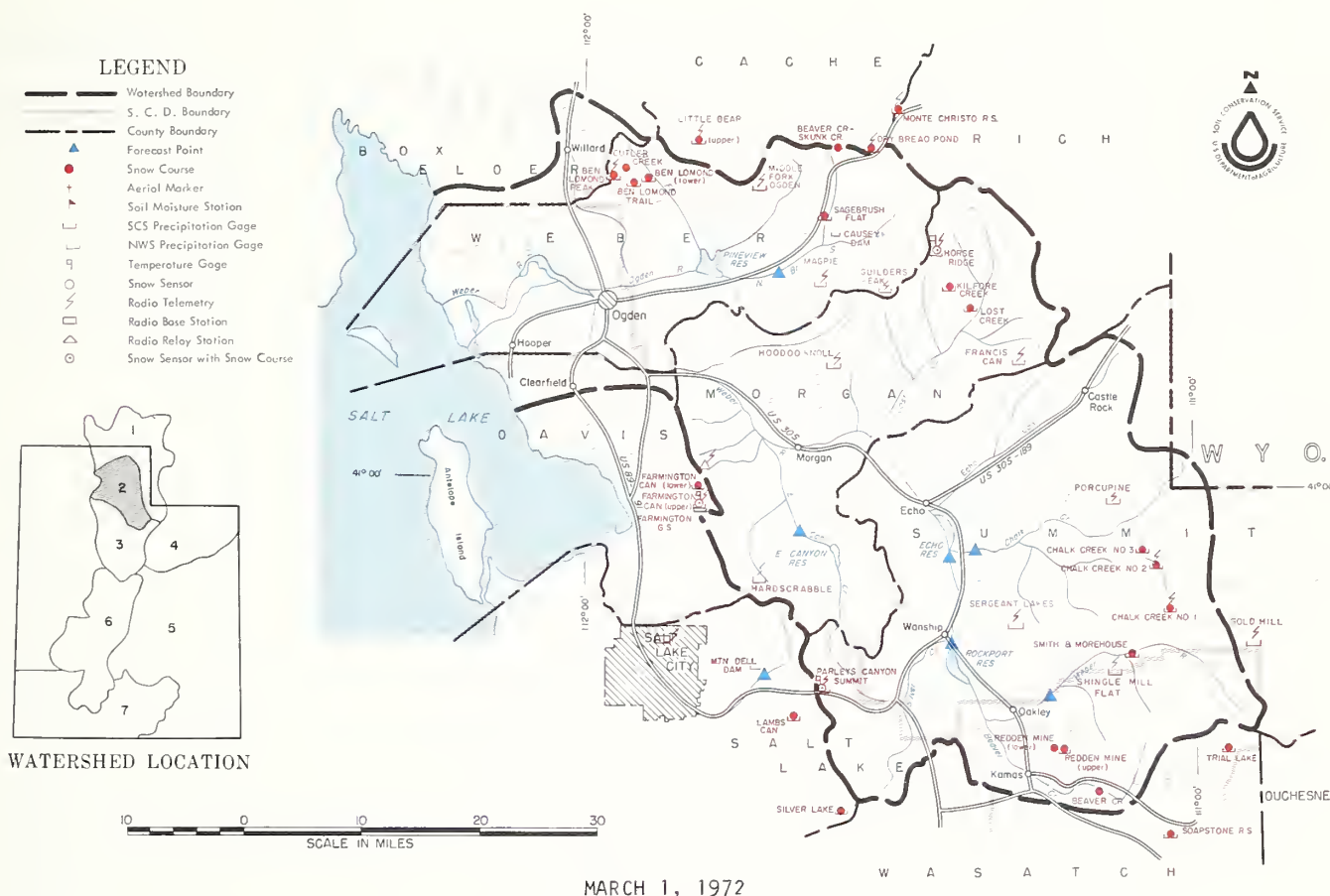
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



The 1972 Water Supply Outlook for the Weber and Ogden Basins is excellent.

Snow Cover ranges from 131% of the March 1 average on East Canyon Creek to 176% on Lost Creek. The Upper Weber and Chalk Creek both have 133% of the March 1 average snow water content. Ogden River basin has 152% of average water content. The only snow courses receiving above average increases for the month were Monte Cristo and Sagebrush Flat.

Reservoir Storage was decreased during February to make space for spring runoff but still remains well above average. Pineview had 66,800 a.f. on March 1 or 248% of its average. East Canyon held 37,500 a.f. on March 1 and held 39,000 a.f. last year at this time. Lost Creek held 14,600 a.f. and held 13,800 a.f. last year. Echo held 55,500 a.f. on March 1 or 155% of its average and Rockport held 26,200 a.f. or 110% of average. Willard Bay now has 171,800 a.f. and last year held 185,000 a.f. on March 1.

Great Salt Lake is now 4198.80 feet above mean sea level and 2.0 feet above last year at this time. This is 7.45 feet above the alltime record low of October 1963 according to the U. S. Geological Survey.

Streamflow Forecasts for the April-June period range from 125% (137,000 a.f.) for Rockport Inflow to 224% (26,000 a.f.) for Lost Creek. The South Fork of the Ogden is forecast to produce 82,000 a.f. (178%) and Pineview Reservoir Inflow is expected to be 170,000 a.f. (189%). The Weber at Oakley is forecast to produce 119,000 a.f. (128%), near Coalville 140,000 a.f. (140%) and Chalk Creek is expected to produce 41,000 a.f. (158%). East Canyon forecast indicates 27,000 a.f. (157%) and Hardscrabble 22,000 a.f. (163%) during the April-June period.

Streams in this area are expected to have higher than average snow melt peak flows again this season.

Report prepared by
BOB L. WHALEY
U. S. DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
FEDERAL BLDG. ROOM 4012 - SALT LAKE CITY, UTAH 84111

MARCH 1, 1972

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>WEBER-OGDEN RIVERS</u>					
Chalk Crk at Coalville	41	158	Apr-June	- -	26
East Canyon Crk nr Morgan (1)	27	157	Apr-June	27	17.2
Hardscrabble Crk nr Porterville	22	163	Apr-June	- -	13.5
Lost Crk nr Croydon, Utah	26	224	Apr-June	24	11.6
Pineview Reservoir Inflow (2)	170	189	Apr-June	160	90
South Fork Ogden nr Huntsville	82	178	Apr-June	- -	46
Rockport Reservoir Inflow (1)	137	125	Apr-June	- -	110
Weber nr Coalville (1)	140	140	Apr-June	- -	100
Weber nr Oakley	119	128	Apr-June	124	93

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Lost Creek near Croydon	360 - 500	171
So. Fork Ogden nr Huntsville	800 - 1100	643

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Ogden</u>	Causey	7.1	0.6	1.9	- -
	Pineview	110.1	66.8	24.4	26.9
<u>Weber</u>	East Canyon	48.1	37.5	39.0	11.2
	Echo	73.9	55.5	61.8	35.7
	Lost Creek	20.0	14.6	13.8	- -
	Rockport	60.9	26.2	21.3	23.8
	Willard Bay	193.3	171.8	185.0	- -
(1) - Observed flow corrected for change in storage and diversions. (2) - Inflow record as computed by U. S. Bureau of Reclamation b - Average of all past records within the 15-year period, but less than 15 years x - Adjacent drainage ** - Snow pillow reading cooperatively by Park City Resort * - Partly estimated (3) - Data obtained by radio - USU-SCS cooperative sites					

WEBER-OGDEN WATERSHEDS

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>OGDEN RIVER</u>						
Beaver Crk-Skunk Creek	7150	2/28	44	15.6	12.8	9.6
Ben Lomond (lower)	6000	2/24	48	17.7	17.0	11.4b
Ben Lomond Peak	8000	2/24	94	38.0	36.2	26.2b
Ben Lomond Trail	6000	2/24	54	21.5	18.2	11.3b
Cutler Creek	6780	2/24	81	32.7	25.7	20.0b
Dry Bread Pond	8230	2/28	59	21.0	20.7	14.3
Monte Cristo R. S.	8960	2/28	83	31.7	34.4	20.2*
Sagebrush Flat	6300	2/28	18	7.0	5.5	4.0
<u>WEBER RIVER</u>						
Beaver Creek R. S.	7500	2/29	28	8.4	9.5	7.3
Chalk Creek #1	9100	2/24	64	22.2	24.4	17.7*
Chalk Creek #2	7900	2/24	48	15.2	15.3	11.1
Chalk Creek #3	7500	2/24	30	9.0	8.1	6.3
Farmington Canyon (lower) x	6950	2/25	70	23.2	23.7	16.9
Farmington Canyon (upper) x	8000	2/25	98	36.7	32.6	20.9
Horse Ridge	8260	2/29	80	30.4	27.0	- -
Kilfore Creek	7300	2/29	57	19.3	15.9	- -
Lamb's Canyon x #1	6600	2/28	52	17.3	16.0	11.6
Lamb's Canyon #2 x	7400	2/28	52	18.1	- -	- -
Park City Smt.	9300	2/26	114	43.2	- -	- -
Parley's Canyon Smt.	7500	2/28	61	20.2	17.8	14.2
Redden Mine (lower)	8500	2/28	52	17.8	17.6	13.9
Redden Mine (upper)	9000	2/28	57	20.4	20.1	15.5
Silver Lake x	8725	2/28	66	23.2	19.1	18.9
Smith & Morehouse	7600	2/25	46	14.3	13.0	10.1
Trial Lake x	9800	2/29	84	27.9	28.5	20.7
Lost Creek Reservoir	6125	2/29	26	9.8	- -	- -

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
OGDEN RIVER							
Ben Lomond (lower)	5850	2/24	1.09	4.39b	29.72	19.85*	150
Ben Lomond Trail	6000	2/24	1.30	4.41b	29.73	21.48*	138
Causey Dam	5500	2/28	1.51	1.92b	18.43	12.58*	146
Dry Bread Pond	8230	2/28	2.35	4.47*	21.23	16.22*	131
Monte Cristo #2 x (WB)	8960	2/28	3.11	4.94b	27.66	19.68	141
Sagebrush Flat	6300	2/28	1.31	2.48b	16.77	10.76	156
WEBER RIVER							
Chalk Creek #1	9100	3/2	2.23	- -	22.80	- -	- -
Chalk Creek #2	8000	2/29	1.24	3.02b	15.94	11.82*	134
Chalk Creek #3	7500	2/24	0.88	1.82b	13.95	10.19b	137
Farmington G.S.	7500	2/25	2.28	4.69	35.04	21.73	161
Farmington Rice	7000	2/25	1.98	4.38	31.44	19.73	159
Horse Ridge	8260	2/29	- -	- -	29.75	- -	- -
Parley's Canyon Smt.	7500	2/28	2.20	3.94	20.30	15.58	130
Sergeant Lakes (3)	8400	2/29	1.19	- -	18.43	- -	- -
Silver Lake (Brighton)	8725	2/29	2.13	3.40	26.96	19.11	141
Smith & Morehouse	7600	2/25	1.80	3.19b	18.72	12.98	144
Trial Lake x	9800	2/29	2.60	4.47b	12.82	17.36	74
Redden Mine (upper)	9000	2/28	- -	- -	22.89	- -	- -

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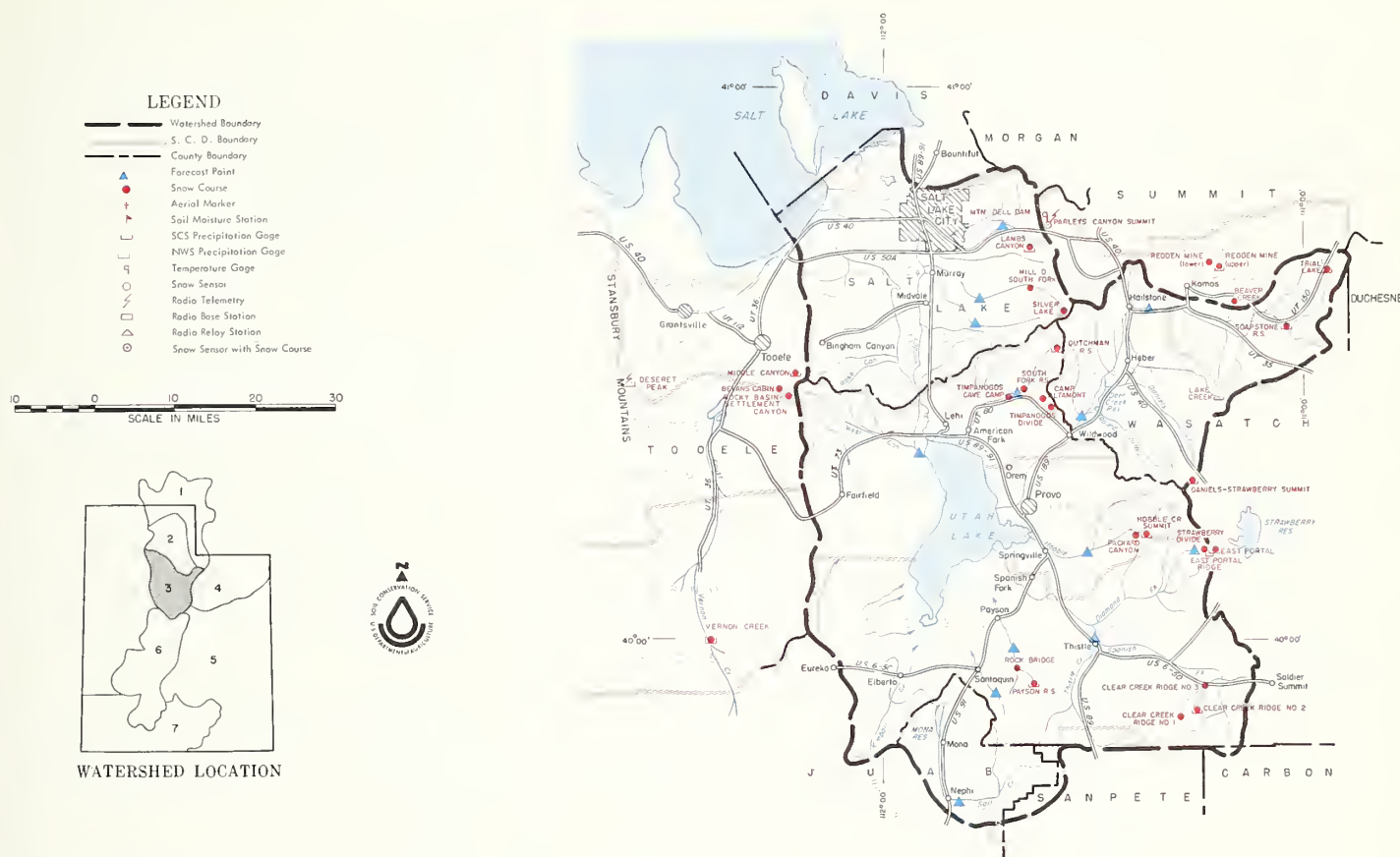


"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



MARCH 1, 1972

The 1972 Water Supply Outlook for Utah Lake, Jordan River and Tooele Valley Watersheds is "above average".

Snow Cover received well below average increases due to a very dry February and now ranges from 105% of the March 1 average on Payson Creek to 132% of average on creeks flowing into the Jordan River near Salt Lake. Spanish Fork and Hobbie Creek snow cover is 110% of average, American Fork is 107% average and the Upper Provo is 124% of the March 1 average. Strawberry Basin above the Reservoir is 129% of average.

Reservoir Storage is well above average. Strawberry now holds 198,200 a.f. (165%) and Utah Lake has 829,200 a.f. (148%). Utah Lake is now 0.58 feet below Compromise and is releasing water to hold the level as near Compromise as possible.

Streamflow Forecasts dropped due to below average increases to the snow pack during February. Forecasts now range from 126% (34,000 a.f.) for Spanish Fork to 191% (18,000 a.f.) for Parleys Creek. Farmington Creek is expected to produce 11,700 a.f. (172%), Big Cottonwood 43,000 a.f. (126%) and Little Cottonwood 42,000 a.f. (127%) during the April-July period. American Fork is forecast at 131% of average (34,000 a.f.), the Provo at Hailstone 159% (138,000 a.f.) and 155,000 a.f. (161%) below Deer Creek Dam. Hobbie Creek is forecast to produce 22,000 a.f. (169%) and Utah Lake Inflow is expected to be 274,000 a.f. (141%) or about 33,000 acre feet more than last year during the April-July period. Strawberry Reservoir Inflow is expected to be 60,000 a.f. (146%) during the same period. Settlement Canyon is expected to produce 2,250 a.f.

MARCH 1, 1972

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>PROVO RIVER & UTAH LAKE</u>					
American Fork nr American Fork	34	131	Apr-July	- -	26
Hoblle Crk nr Springville	22	169	Apr-July	- -	13.0
Provo nr Hailstone (1)	138	159	Apr-July	- -	87
Provo below Deer Crk Dam (1)	155	161	Apr-July	- -	96
Spanish Fork at Thistle	34	126	Apr-July	- -	27
Strawberry Reservoir Inflow (1)	60	146	Apr-July	- -	41
Utah Lake Inflow	274	141	Apr-July	241	195
<u>JORDAN RIVER & SALT LAKE</u>					
Big Cottonwood nr SLC	43	126	Apr-July	42	34
Farmington Crk nr Farmington	11.7	172	Apr-July	- -	6.8
Little Cottonwood Crk nr SLC	42	127	Apr-July	41	33
Parley's Crk nr SLC	18.0	191	Apr-July	19.4	9.4
<u>TOOELE VALLEY</u>					
Settlement Canyon	2.2	129	Apr-July		1.7

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Hobble Creek near Springville	200 - 400	180
Spanish Fork near Thistle	350 - 650	307

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Spanish Fork</u>	Strawberry	270.0	198.2	190.8	120.0
<u>Utah Lake</u>	Utah Lake	883.9	829.2	846.1	558.4
(1) - Observed flow corrected for change in storage and diversions. x - Adjacent drainage b - Average of all past records within the 15-year period, but less than 15 years * - Partly estimated					

UTAH LAKE, JORDAN RIVER AND TOOELE VALLEY WATERSHEDS

SNOW

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>UTAH LAKE</u>						
Beaver Creek R. S. x	7500	2/29	28	8.4	9.5	7.3
Camp Altamont	7300	2/29	33	11.1	10.3	12.1
Clear Creek Ridge #1	9200	2/25	51	16.2	17.8	14.2b
Clear Creek Ridge #2	8000	2/25	46	12.4	14.4	11.0b
Clear Creek Ridge #3	6600	2/25	23	7.4	9.4	6.2b
Daniels-Strawberry Smt.	8000	2/25	45	14.5	13.1	11.6
Dutchman R. S.	7560	2/29	45	17.1	14.6	14.8b
East Portal	7560	2/28	34	11.1	11.0	8.6
Hobble Creek Summit	7420	2/28	35	12.5	13.8	10.7b
Packard Canyon	6400	2/28	28	8.3	10.1	8.2b
Payson R. S.	8050	2/24	39	14.0	15.8	13.9b
Rock Bridge	6750	2/24	33	10.6	11.5	9.6b
Soapstone R. S.	7800	2/29	46	13.9	13.0	10.5
South Fork R. S.	6100	2/29	1	0.6	3.1	5.0
Strawberry Divide	8000	2/28	56	20.0	19.8	15.1
Timpanogos Cave Camp	5500	2/28	0	0.0	1.8	2.3
Timpanogos Divide	8140	2/29	58	22.0	19.0	19.9
Trial Lake	9800	2/29	84	27.9	28.5	20.7
 <u>JORDAN RIVER & TOOELE VALLEY</u>						
Lamb's Canyon #1	6600	2/28	52	17.3	16.0	11.6
Middle Canyon - Tooele x	7000	2/23	35	12.5	15.6	10.1b
Mill D South Fork	7400	2/28	56	21.2	19.6	15.7
Parley's Canyon Smt. x	7500	2/28	61	20.2	17.8	14.2
Rocky Basin-Settlement Canyon	8900	2/28	64	22.8	- -	- -
Silver Lake	8725	2/28	66	23.2	19.1	18.9
Vernon Creek	7500	2/23	24	8.1	9.4	- -
Lamb's Canyon #2	7400	2/28	52	18.1	- -	- -

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
UTAH LAKE							
Clear Creek Ridge #2	8000	2/25	1.55	2.62b	14.38	11.59*	124
Daniels-Strawberry Smt.	8000	2/25	1.81	2.90b	17.78	13.85*	128
Dutchman R. S.	7500	2/29	1.50	- -	21.75	15.94b	136
East Portal Ridge	7800	2/28	1.42	3.37	16.47	13.78*	120
Hobble Creek Smt.	7300	2/28	1.60	- -	17.07	- -	- -
Payson R. S.	8050	2/24	1.30	3.84b	14.83	13.85	107
Soapstone R. S.	7800	2/29	1.98	2.71b	17.00	12.13	140
Timpanogos Divide	8200	2/29	1.20	3.94	23.75	19.89	120
Trial Lake	9800	2/29	2.60	4.47b	12.82	17.36	74
JORDAN RIVER & TOOELE VALLEY							
Lamb's Canyon #2	7400	2/28	1.65	- -	20.20	- -	- -
Middle Canyon	7000	2/23	1.43	3.32b	11.30	12.87	87
Mt. Dell Dam	5500	3/1	0.65	2.02	11.35	9.52	119
Parley's Canyon Smt.	7500	2/28	2.20	3.94*	20.30	15.58	130
Silver Lake (Brighton)	8725	2/29	2.13	3.40	26.96	19.11	141
Vernon Creek	7500	2/23	- -	- -	15.05	- -	---
Rocky Basin-Settlement Cyn	8900	2/28	- -	- -	17.50	- -	- -

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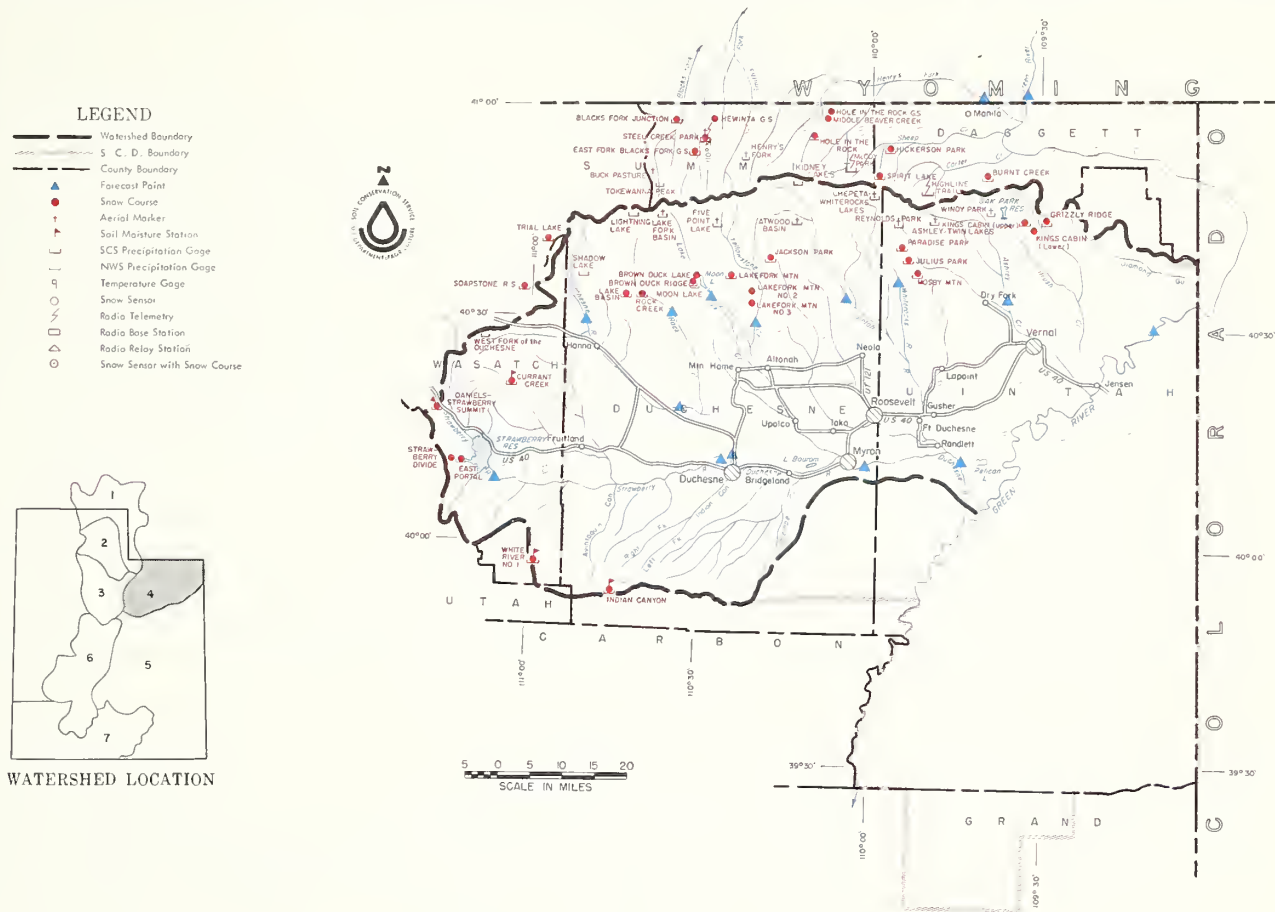
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



The 1972 Water Supply Outlook for the Uintah Basin and Daggett SCD's is still above average.

Snow Cover decreased during February due to little precipitation during the month and now ranges from 129% on the upper Duchesne to 159% of the March 1 average on the Uintah and Whiterocks drainages. Lakefork-Yellowstone drainages are 130% and the Strawberry 133% of average. Ashley Creek has 155% of the March 1 average water content and Henry's Fork 152%. Black's Fork snow cover is 141% of the March 1 average for the 1953-67 period.

Reservoir Storage is above average. Steinaker now holds 24,200 acre feet (144%), Moon Lake 17,400 acre feet (111%), Bottle Hollow about 9,000 acre feet and Starvation now holds 129,500 acre feet. Flaming Gorge storage was 2,562,000 acre feet or 205% of its average for March 1.

Streamflow Forecasts dropped 3 to 17% as a result of less than average increases to the snow pack and now range from 114% (75,000 a.f.) on Lakefork to 158% (1,670,000 a.f.) for the Inflow to Flaming Gorge Reservoir during the April-July period. The Duchesne is forecast to produce 119,000 a.f. (127%) at Tabiona, 209,000 a.f. (125%) at Duchesne, 290,000 a.f. (119%) at Myton.

Strawberry River is expected to produce 70,000 a.f. (143%), Rock Creek 108,000 a.f. (123%), Yellowstone 70,000 a.f. (119%), Uintah 95,000 a.f. (120%) and Whiterocks 60,000 a.f. (118%). Ashley Creek is forecast to produce 55,000 a.f. (125%) during the April-July period and Henry's Fork 55,000 a.f. (145%) for the April-Sept period. Mean daily peak flow is expected to fall between 1000 - 1575 cfs on Ashley Creek and 700 - 1100 cfs for the Strawberry near Duchesne during the snow melt period this year.

MARCH 1, 1972

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS			THIS YEAR		PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET		
	Thousand Acre Feet	Percent of Average		Last Year	Average †	
<u>DUCHESNE RIVER</u>						
Duchesne nr Tabiona (1)	119	127	Apr-July		94	
Duchesne at Duchesne (1)	209	125	Apr-July		167	
Duchesne at Myton (1)	290	119	Apr-July		243	
Duchesne at Randlett (1)	320	122	Apr-July		262	
Strawberry at Duchesne	70	143	Apr-July	62	49	
Rock Crk nr Mtn. Home	108	123	Apr-July		88	
Lakefork below Moon Lake (1)	75	114	Apr-July		66	
Yellowstone nr Altonah	70	119	Apr-July		59	
Uinta nr Neola	95	120	Apr-July		79	
Whiterocks nr Whiterock	60	118	Apr-July	59	51	
<u>FLAMING GORGE TO DUCHESNE RIVER</u>						
Ashley Creek nr Vernal	55	125	Apr-July	50	44	
Henry's Fork at Linwood	55	145	Apr-Sept		38	
Flaming Gorge Inflow (1)	1670	158	Apr-July	1905	1054	

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Ashley Creek</u>	Steinaker	33.3	24.2	23.9	16.8
<u>Green River</u>	Flaming Gorge	3749.0	2562.0	1807.0	1248.0
<u>Lake Fork</u>	Moon Lake	35.8	17.4	12.4	15.7
<u>Strawberry</u>	Starvation	165.3	129.5	118.6	- -
<u>Uintah</u>	Bottle Hollow	11.3	9.0	- -	- -
(1) - Observed flow corrected for change in storage and diversions b - Average for all past record within 15 year period, but less than 15 years x - Adjacent drainage * - Partly estimated					

UINTAH BASIN & DAGGETT SCD's

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
					Last Year	Average †
NAME	Elevation					
<u>UINTAH BASIN SCD</u>						
Daniels-Strawberry Smt. x	8000	2/25	45	14.5	13.1	11.6
East Portal x	7560	2/28	34	11.1	11.0	8.6
Indian Canyon	9100	2/29	48	14.4	10.3	9.3
Julius Park	9800	2/25	51	15.2	12.2	9.4b
King's Cabin (lower)	8600	2/23	35	9.8	8.9	6.8
King's Cabin (upper)	8730	2/23	42	12.6	11.3	7.9
Lakefork Mountain	10200	2/28	42	11.3	10.8	9.0
Lakefork Mountain #2	8900	2/28	32	8.7	7.9	6.4
Lakefork Mountain #3	8100	2/28	23	6.1	6.5	5.4
Mosby Mountain	9500	2/25	39	11.7	8.5	7.9
Paradise Park	10100	2/25	49	15.6	11.8	9.4
Soapstone R. S. x	7800	2/29	46	13.9	13.0	10.5
Strawberry Divide x	8000	2/28	56	20.0	19.8	15.1
Trial Lake x	9800	2/29	84	27.9	23.5	20.7
White River #1	8550	2/25	47	13.6	13.8	10.8b
<u>DAGGETT SCD</u>						
Black's Fork Jct.	8925	2/23	38	10.7	9.1	7.2b
Black's Fork G.S.-East Fork	9300	2/23	36	11.0	9.1	7.4b
Hewinata Guard Station	9500	2/23	34	9.6	9.2	7.0b
Hickerson Park	9100	2/23	22	6.4	6.1	- -
Spirit Lake	10300	2/23	45	14.5	12.7	9.3b
Steel Creek Park	9900	2/23	56	15.7	17.2	11.8b
Burnt Creek	7900	2/24	20	4.9	6.6	- -
Grizzly Ridge	8500	2/24	35	10.4	10.5	- -

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
UINTAH BASIN SCD							
Daniels-Strawberry SMT.x	8000	2/25	1.81	2.90b	17.78	13.85b	128
East Portal Ridge x	7800	2/28	1.42	3.37	16.47	13.78*	120
Grizzly Ridge	8500	2/24	0.53	- -	14.73	- -	- -
Indian Canyon	9100	2/29	0.32	1.53b	15.00	10.74	140
Julius Park	9800	2/25	0.17	1.76*	16.01	9.38*	171
King's Cabin (upper)	8730	2/23	- -	- -	13.62	7.97*	171
Lakefork Mountain	10500	2/28	0.78	2.24b	14.96	9.18	163
Moon Lake	8150	2/29	0.10	1.16	9.10	6.41	142
Paradise Park	10100	2/25	0.30	1.92	17.28	10.30	168
Soapstone R.S.x	7800	2/29	1.98	2.71b	17.00	12.13	140
Trial Lake x	9800	2/29	2.60	4.47b	12.82	17.36	74
White River #1	8600	2/25	- -	- -	12.45	10.40*	120
Mosby Mountain	9500	2/25	0.15	- -	14.15	- -	- -
DAGGETT SCD							
Black's Fork Jct.	8925	2/23	- -	- -	12.76	8.00b	160
Burnt Creek	7900	2/24	0.48	- -	11.09	- -	- -
East Fork Black's Fk.G.S.	9300	2/23	- -	- -	12.56	- -	- -
Hewinta Guard Station	9500	2/23	- -	- -	13.71	- -	- -
Hickerson Park	9100	2/23	- -	- -	8.94	- -	- -
Spirit Lake	10300	2/23	- -	- -	16.19	11.33	143
Steel Creek Park	9900	2/29	1.91	- -	15.05	- -	- -

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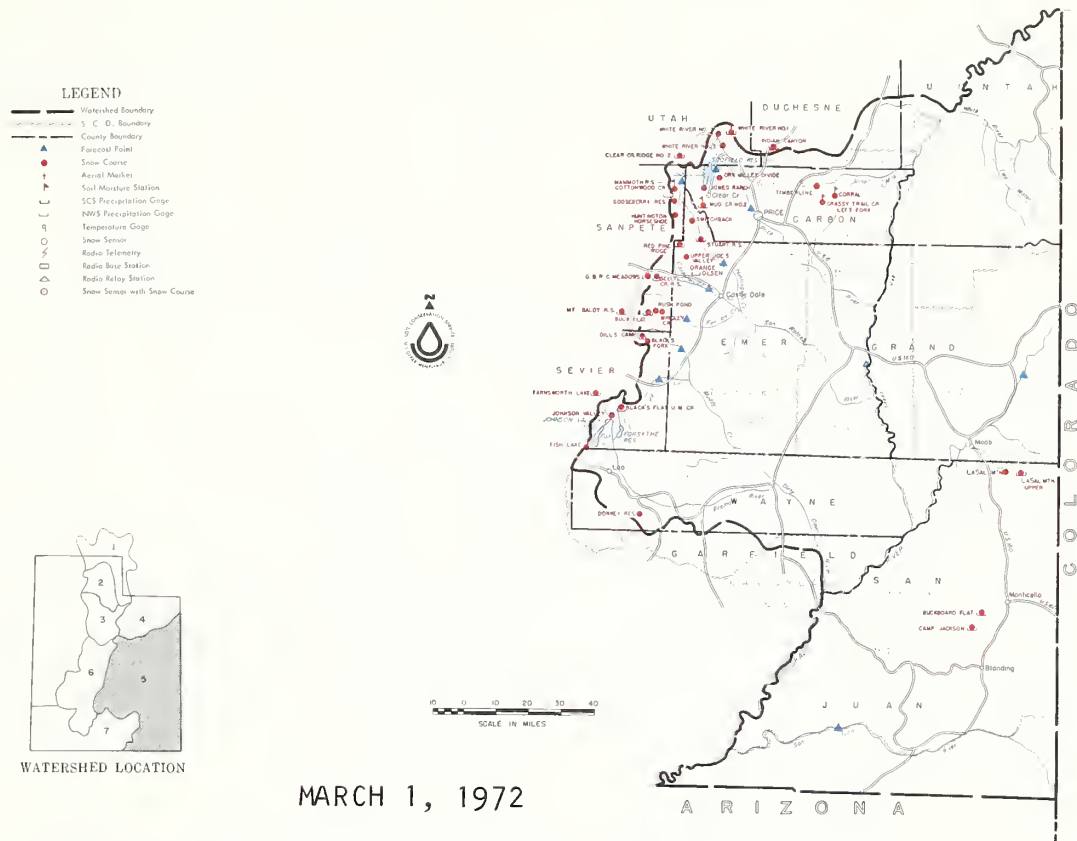
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WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

**UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS**



The 1972 Water Supply Outlook for Southeastern Utah dropped to "near average" after a very dry February.

Snow Cover received well below average gains during February and now ranges from 99% of the March 1 average water content on the LaSal Mountains to 130% on the Fremont River. Price River snow cover is 123% and San Rafael tributaries average 111% of the 1953-67 March 1 average.

Reservoir Storage is well above average. Scofield has 41,500 acre feet or 193% of the 15-year average (1953-67), Joe's Valley 39,100 acre feet and the new Mill Site Reservoir on Ferron Creek has 4,500 acre feet in storage with a useable capacity of 16,700 acre feet. This reservoir will supplement the water supply in this area considerably. Navajo reservoir on the San Juan now holds 875,100 acre feet.

Streamflow Forecasts in this area of the state dropped 5 to 21% and now range from 111% (6,900 acre feet) on Seven Mile Creek near Fish Lake to 125% (40,000 acre feet) for Scofield Reservoir Inflow. Gooseberry Creek above Scofield is expected to produce 11,500 acre feet during the April-July period and the Price at Heiner 64,000 acre feet (118%). Huntington Creek is forecast to produce 50,000 acre feet (110%), Cottonwood Creek 53,000 acre feet (120%) and Ferron Creek 38,000 acre feet (115%). Muddy Creek is expected to produce 19,000 acre feet or 117% of its April-July average for the 1953-67 period.

March 1, 1972

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>PRICE RIVER</u>					
Gooseberry Crk nr Scofield	11.5	115	Apr-July	34	10.0
Price near Heiner (1)	64	118	Apr-July		54
Scofield Reservoir Inflow (1) m	40	125	Apr-July		32
<u>SAN RAFAEL RIVER</u>					
Cottonwood Crk nr Orangeville	53	120	Apr-July		44
Ferron Crk nr Ferron	38	115	Apr-July		33
Huntington Crk nr Huntington	50	119	Apr-July		42
<u>MUDDY RIVER</u>					
Muddy Creek nr Emery	19.0	117	Apr-July		16.2b
<u>UPPER COLORADO BASIN</u>					
Colorado nr Cisco, Utah	2872	102	Apr-July	305	2802
Green at Green River, Utah	3228	125	Apr-July		2574
Navajo Reservoir Inflow	625	101	Apr-July		619
San Juan nr Bluff, Utah	932	105	Apr-July		890
<u>FREMONT RIVER</u>					
Seven Mile Crk. nr Fish Lake	6.9	111	Apr-July		6.2b

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average †
Ferron Creek near Ferron	400 - 680	414
Muddy Creek near Emery	140 - 270	142

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Price River</u>	Scofield	65.8	41.5	43.5	21.5
<u>San Rafael</u>	Joe's Valley	54.6	39.1	39.9	- -
	Mill Site	16.7	4.5	- -	- -
<u>San Juan</u>	Navajo	1696.4	875.1	852.0	- -
(1) - Observed flow corrected for change in storage and diversions.					
b - Average for all past record within 15-yr period, but less than 15 years.					
x - Adjacent drainage					
* - Partly estimated					

CARBON, EMERY, WAYNE, GRAND & SAN JUAN COUNTIES

SNOW

DRAINAGE BASIN and/or SNOW COURSE		THIS YEAR			PAST RECORD	
		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>PRICE RIVER</u>						
Dry Valley Divide	7800	2/28	31	9.9	11.4	8.7
Gooseberry Reservoir	8700	2/25	43	15.3	16.4	14.4b
Indian Canyon x	9100	2/29	48	14.4	10.3	9.3
Jones Ranch	7600	2/28	13	4.7	6.4	5.8
Mammoth R.S.-Ctnwood Crk. x	8800	2/25	46	16.2	19.0	14.5b
Mud Creek #2	8300	2/28	42	14.2	11.1	10.4*
White River #1	8550	2/25	47	13.6	13.8	10.8b
White River #2	7600	2/25	33	9.0	9.0	7.5b
White River #3	7400	2/25	28	7.4	6.4	7.1b
<u>SAN RAFAEL RIVER</u>						
Buck Flat	9400	2/25	48	14.6	17.1	12.7b
Gooseberry Reservoir	8700	2/25	43	15.3	16.4	14.4b
Mammoth R.S.-Ctnwood Crk. x	8800	2/25	46	16.2	19.0	14.5b
Red Pine Ridge	9400	2/28	46	15.0	14.9	13.8b
Rush Pond	9800	2/25	45	12.9	13.1	11.4b
Seely Creek R.S.	10000	2/29	31	11.2	13.2	12.0
Upper Joe's Valley	8900	2/28	34	10.0	8.6	8.2b
Wrigley Creek	9000	2/25	42	11.4	10.8	9.0b
<u>MUDDY RIVER</u>						
Black's Fork	9200	2/24	39	12.6	12.2	- -
Dills Camp	9200	2/24	37	11.4	11.6	- -
Mt. Baldy R.S. x	9500	2/24	52	18.5	20.8	17.3
<u>FREMONT RIVER</u>						
Black's Flat-U.M. Crk	9250	2/24	40	11.6	9.3	7.7b
Farnsworth Lake x	9900	2/28	47	16.4	18.1	13.4b
Fish Lake	8700	2/29	21	6.8	3.9	4.7b
Johnson Valley	8850	2/24	18	5.2	2.8	4.9b
<u>SOUTHEASTERN UTAH DRAINAGES</u>						
Buckboard Flat	9000	2/22	34	12.2	9.7	9.8b
Camp Jackson	8600	2/23	29	9.7	9.0	9.2b
LaSal Mountain (lower)	8800	2/24	22	6.4	7.6	7.2
LaSal Mountain (upper)	9400	2/24	38	11.9	12.6	11.3b

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
PRICE RIVER							
Clear Creek Ridge #2 x	8000	2/25	1.55	2.62b	14.38	11.59*	124
Gooseberry Reservoir	8700	2/25	1.05	3.39b	14.70	13.83	106
Indian Canyon	9100	2/29	0.32	1.53b	15.00	10.74	140
Mammoth R.S. #2	8600	2/25	1.50	3.05b	14.30	14.40	99
Mud Creek	8300	2/28	1.80	2.42*	10.90	11.31	96
White River #1	8600	2/25	- -	- -	12.45	10.46*	119
SAN RAFAEL RIVER							
Buck Flat	9400	2/25	1.40	3.41b	15.30	12.46*	123
G.B.R.C. Meadows x	10000	2/29	1.75	4.37	18.80	16.41	114
Gooseberry Reservoir x	8700	2/25	1.05	3.39b	14.70	13.83	106
Orange Olsen	7300	2/28	0.30	- -	8.55	- -	- -
Red Pine Ridge	9400	2/28	1.75	4.65b	18.20	15.15*	120
FREMONT RIVER							
Black's Flat-U.M. Creek	9250	2/24	- -	- -	11.25	8.93*	126
Farnsworth Lake x	9900	2/28	1.64	3.75b	16.34	13.52b	121
Fish Lake	8700	2/24	- -	- -	8.20	6.38b	129
SOUTHEASTERN UTAH DRAINAGES							
Buckboard Flat	9000	2/22	- -	- -	20.00	14.04b	142
Camp Jackson	8600	2/23	- -	2.19*	16.03	11.66	137
LaSal Mountain (upper)	9600	2/24	- -	- -	14.15	- -	- -

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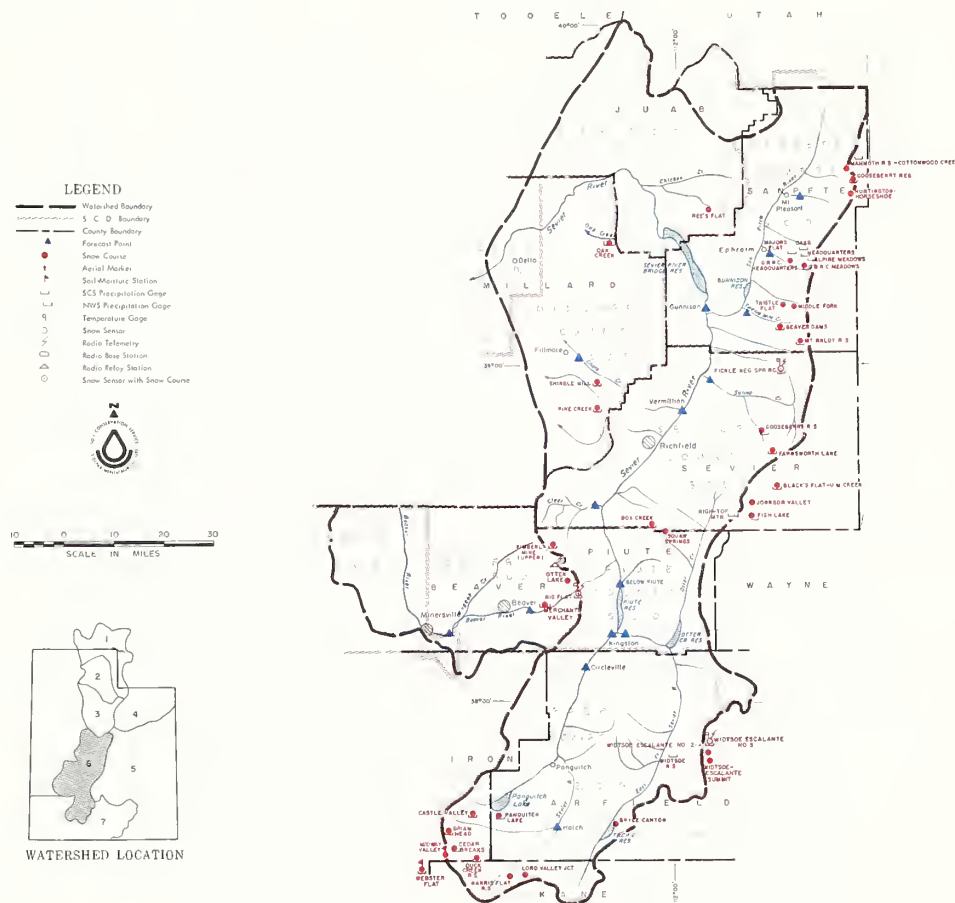
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

SEVIER RIVER BASIN including BEAVER RIVER in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



MARCH 1, 1972

The 1972 Water Supply Outlook for the Sevier and Beaver River Basins is "above average" on the main Sevier and "near average" on the East Fork Sevier.

Snow Cover was reduced by a very dry February and now ranges from 101% of the March 1 average on the Beaver to 117% of average on the higher elevations of the East Fork of the Sevier. The Sevier above Hatch is 113%, Clear Creek 106%, and Salina Creek 114%. San Pitch tributaries are about average. Warm temperatures and the lack of precipitation removed snow from lower elevations and exposed south slopes at higher elevations.

Reservoir Storage is well above average. The three main Sevier reservoirs are now 75% of useable capacity and 194% of their March 1 average for the 1953-67 period. Otter Creek now holds 35,000 acre feet, Piute 61,000 acre feet and Sevier Bridge 173,600 acre feet. Gunnison is full with 18,200 acre feet. Minersville Reservoir has 15,400 acre feet or 145% of its March 1 average and about 1500 acre feet less than last year at this time.

Streamflow Forecasts dropped due to a much drier than average February and now range from 85% of average (4,000 a.f.) for the Inflow to Minersville Reservoir during the April-June period to 162% (73,000 a.f.) for the Vermillion to Gunnison Inflow during the March-June period. The Sevier at Hatch is forecast to produce 42,000 acre feet (127%), at Circleville 35,000 acre feet (130%) and at Kingston 18,400 acre feet (119%) during the April-July period. Clear Creek forecast dropped to 12,100 acre feet (97%), the East Fork Sevier- 10,000 acre feet (85%) and Antimony Creek 7,000 acre feet (90%) for the same period. Salina Creek is forecast to produce 9,000 acre feet (152%) (April-June) and the Sevier at Gunnison is expected to produce 42,000 acre feet (135%) (April-July).

The Beaver River is expected to produce 20,000 acre feet or 106% of its April-July average. The October-March inflow to Sevier Bridge reservoir is expected to be 95,000 to 105,000 acre feet and 1800 - 2200 acre feet of flow above 360 cfs is expected below Vermillion Dam. Primary water percentages are still expected to be a little above the average although another dry month will probably drop these forecasts to slightly below average.

MARCH 1, 1972

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS	THIS YEAR			PAST RECORD	
BASIN STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>SEVIER RIVER</u>					
Chalk Creek nr Fillmore	16.4	124	Apr-July		13.2
Clear Crk nr Sevier (above Div.)	12.1	97	Apr-July		12.5b
East Fork Sevier nr Kingston (1)	10.0	85	Apr-July		11.7
Antimony Crk nr Antimony	7.0	90	Apr-July		7.8b
Inflow					
Kingston to Vermillion Dam	30	100	Apr-June		30 b
Vermillion Dam to Gunnison	73	162	Mar-June		45 b
Salina Crk at Salina (1)	9.0	152	Apr-June	12.2	5.9*
Sevier nr Circleville	35	130	Apr-July		27
Sevier nr Gunnison	42	135	Apr-July		31 b
Sevier at Hatch	42	127	Apr-July		33
Sevier nr Kingston	18.4	119	Apr-July		15.4
Sevier below Piute Dam (1)	28	97	Apr-July		29
<u>SAN PITCH RIVER</u>					
Ephraim Creek nr Ephraim	17.0	122	Apr-July		13.9b
Pleasant Crk nr Mt. Pleasant	8.1	104	Apr-July		7.8b
<u>BEAVER RIVER</u>					
Beaver nr Beaver	18.0	95	Apr-July	19.4	18.9
Minersville Reservoir Inflow (1)	4.0	85	Apr-June		4.7

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Creek nr Sevier (above Div.)	5	July 15	July 19
Salina Creek at Salina	25	June 12	June 10
Sevier at Circleville (Circle Valley)	90	June 20	June 24
Sevier at Hatch (upper)	100	July 6	July 10

PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 year Period†	Forecast Period
<u>Sevier River</u>			
Below Vermillion Dam	70	58	Apr-Sept
Circle Valley	80	66	Apr-Sept
Panguitch Valley	100	84	Apr-Sept
Sevier Valley	42	40	Apr-Sept

OTHER SPECIAL FORECASTS

Below Vermillion - Flow above 360 second feet should total about 1,800 - 2,200 acre feet.

Inflow to Sevier Bridge Reservoir from October 1 to March 31 is expected to be 95,000 - 105,000 acre feet.

-
- (1) - Observed flow corrected for change in storage and diversions
b - Average for all past record within 15-yr. period, but less than 15 years.
* - Partly estimated x - Adjacent drainage

SEVIER RIVER BASIN INCLUDING BEAVER RIVER

SNOW

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
UPPER SEVIER RIVER (South of Richfield, Utah)						
Big Flat x	10290	2/22	42	13.1	14.9	13.0
Box Creek	9800	2/25	36	10.1	9.5	9.4b
Bryce Canyon	8000	2/28	7	2.0	4.9	2.4b
Castle Valley	9700	2/25	37	13.1	12.6	9.8b
Duck Creek R. S.	8700	2/24	34	11.8	11.5	10.2
Fish Lake x	8700	2/29	21	6.8	3.9	4.7b
Harris Flat	7700	2/24	6	2.6	8.5	6.1
Kimberly Mine	9300	2/23	36	11.4	13.7	10.8b
Long Valley Jct. x	7500	2/24	0	0.0	2.7	2.2
Midway Valley	9800	2/25	58	20.9	16.0	16.5b
Panguitch Lake	8200	2/25	10	3.4	3.8	3.1
Squaw Springs	9300	2/25	22	6.3	5.7	5.3b
Widtsoe Escalante Smt.	9500	2/28	20	5.4	4.0	5.3
Widtsoe-Escalante #2	9500	2/28	29	7.8	7.0	6.8
Widtsoe-Escalante #3	9500	2/28	37	10.7	9.1	8.1b
Farview	8200	2/29	18	5.1	- -	- -
LOWER SEVIER RIVER (Including San Pitch River)						
Beaver Dams	8000	2/24	22	7.9	9.2	9.6
Farnsworth Lake	9900	2/28	47	16.4	18.1	13.4b
G.B.R.C. Headquarters	8700	2/29	36	11.9	13.9	12.7
G.B.R.C. Meadows	10000	2/29	53	18.7	23.4	18.7
Gooseberry R. S.	8400	2/28	28	8.8	11.6	8.8
Gooseberry Reservoir x	8700	2/25	43	15.3	16.4	14.4b
Mammoth R.S.-Ctnwood Crk.	8800	2/25	46	16.2	19.0	14.5b
Mt. Baldy R.S.	9500	2/24	52	18.5	20.8	17.3
Pine Creek	8700	2/28	30	11.4	14.3	12.1b
Rees's Flat	7300	2/23	31	9.1	13.5	8.9b
Shingle Mill	6200	2/28	22	7.6	9.4	6.5b
BEAVER RIVER						
Big Flat	10290	2/22	42	13.1	14.9	13.0
Merchant's Valley	8200	2/22	18	6.0	8.0	6.9
Otter Lake	9300	2/22	38	11.8	12.8	10.6

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Sevier River</u>	Gunnison	18.2	18.2	17.3	- -
	Otter Creek	52.5	35.0	46.8	23.0
	Piute	71.8	61.0	50.0	35.4
	Sevier Bridge	236.0	173.6	218.2	80.7
<u>Beaver River</u>	Minersville (Rky Fd)	23.3	15.4	16.9	10.6

PRECIPITATION (Inches)

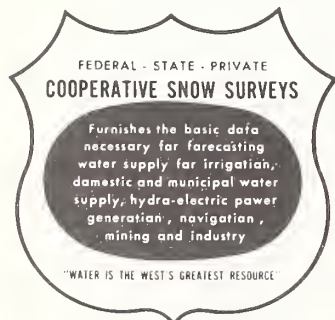
DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
Beaver Dams	8000	2/24	- -	3.09*	11.85	11.30*	105
Big Flat	10290	2/22	0.70	3.63b	11.13	11.86	94
Box Creek	9800	2/25	- -	- -	11.76	10.13b	116
Castle Valley	9700	2/25	- -	- -	11.44	11.30b	101
Duck Creek R.S.	8560	2/24	0.30	3.27b	16.21	13.45*	120
Farnsworth Lake	9900	2/28	1.64	3.75b	16.34	13.52b	121
Fish Lake	8700	2/24	- -	- -	8.20	6.38b	128
G.B.R.C. Headquarters	8700	2/29	1.36	3.66	14.77	13.77	107
G.B.R.C. Meadows	10000	2/29	1.75	4.37	18.80	16.41	114
G.B.R.C. Oaks	7655	2/29	0.87	2.61	10.00	9.52	105
Gooseberry R.S.	7800	2/28	1.03	2.87b	11.76	9.56*	123
Gooseberry Reservoir x	8700	2/25	1.05	3.39b	14.70	13.83	106
Kimberly Mine	8900	2/23	0.54	3.24*	12.09	13.08	92
Mammoth R.S. #2 x	8600	2/25	1.50	3.05b	14.30	14.40	99
Mt. Baldy	9500	2/24	- -	3.00*	14.70	12.43	118
Panguitch Lake	8200	2/25	- -	- -	9.27	5.51b	168
Pine Creek	8700	2/28	- -	- -	19.12	16.09b	119
Shingle Mill	6200	2/28	0.93	2.98*	13.15	10.58	124
Webster Flat x	9200	2/25	0.30	3.53*	17.45	14.82*	118
Widtsoe-Escalante #3	9500	2/28	0.35	2.30b	11.69	9.95b	117
Widtsoe R.S.	7600	2/28	0.07	0.68	5.14	3.78	136
Beaver Canyon P.H.	7275		- -	- -		- -	
Big Flat	10290	2/22	0.07	3.63b	11.13	11.86*	94
Merchant's Valley	8200	2/22	0.67	- -	9.57	- -	- -

PEAK FLOWS (MAXIMUM MEAN DAILY) (Av. flow for 24 hrs. on day of greatest flow)

FORECAST POINT	PEAK FLOW (SECOND FEET)	
	Forecast Range	Average +
Beaver nr Beaver	150 - 350	215
Clear Creek near Sevier	130 - 150	156b
Salina Creek near Sagma	160 - 200	133*
Sevier River at Hatch	308 - 552	370
Sevier River at Circleville	371 - 583	292
Sevier River at Kingston	233 - 329	223

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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

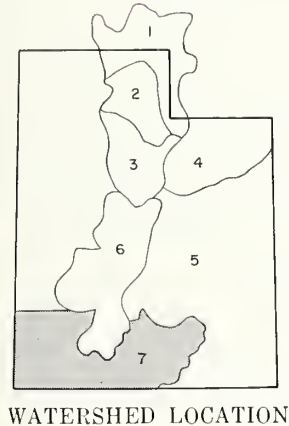
UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
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LEGEND

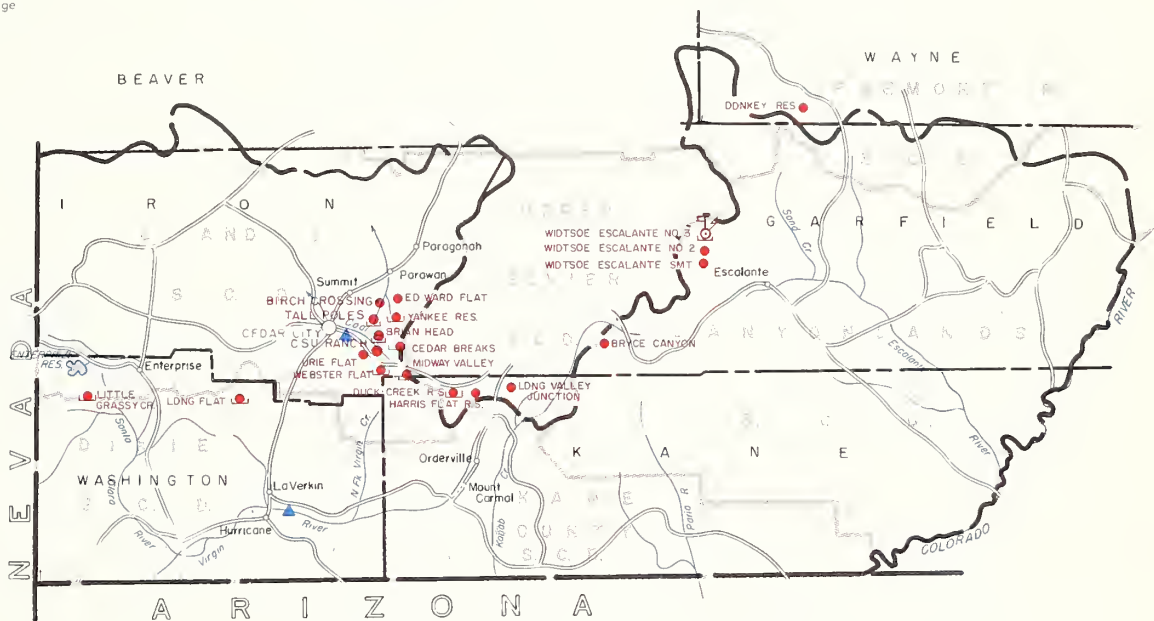
- Watershed Boundary
- - - S. C. D. Boundary
- - - County Boundary
- ▲ Forecast Point
- Snow Course
- † Aerial Marker
- ⊕ Soil Moisture Station
- ⊔ SCS Precipitation Gage
- ⊔ NWS Precipitation Gage
- ⊖ Temperature Gage
- Snow Sensor
- ⚡ Radio Telemetry
- Radio Base Station
- △ Radio Relay Station
- ⊖ Snow Sensor with Snow Course



10 0 10 20 30 40
SCALE IN MILES



WATERSHED LOCATION



MARCH 1, 1972

The 1972 Water Supply Outlook has dropped to "near average" for larger streams of Southwestern Utah and "below average" for smaller low elevation streams.

Snow Cover was reduced during February by warm temperatures and the lack of precipitation and now ranges from 32% of average on the New Castle to New Harmony drainage to 129% of the March 1 average on Parawan Creek. Coal Creek snow cover is 123%, Virgin River 112% and the upper Escalante 118% of the March 1 average.

Reservoir Storage in Lake Powell is now 13,112,000 acre feet or 255% of average and 106% of last March 1.

Streamflow Forecasts have dropped 18 to 23% since February 1st, due to an extremely dry month. The Virgin River is now forecast to produce 38,000 acre feet (100%) during the April-June period and the Santa Clara near Pine Valley is expected to produce about 1500 acre feet (45%) during the same period. Coal Creek is forecast to produce 15,900 acre feet (115%) during the April-July period and the Inflow to Lake Powell is expected to be 7,444,000 acre feet or 114% of average for the April-July period. Another dry month will cause all forecasts to drop below average in this area.

MARCH 1, 1972

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average †
<u>VIRGIN RIVER</u>					
Virgin nr Virgin	38	100	Apr-June		38
Santa Clara nr Pine Valley	1.5	45	Apr-June		3.3b
<u>COAL CREEK</u>					
Coal Crk nr Cedar City	15.9	115	Apr-July		13.8
<u>UPPER COLORADO</u>					
Lake Powell Inflow	7444	114	Apr-July	8378	6527

RESERVOIR STORAGE (Thousand Acre Feet) END OF MONTH

Basin or Stream	RESERVOIR	Usable Capacity	Usable Storage		
			This Year	Last Year	Average †
<u>Colorado</u>	Lake Powell	25002.0	13,112.0	12414.0	5138.0
b - Average for all past record within 15 year period, but less than 15 years x - Adjacent drainage * - Partly estimated					

SNOW

SNOW		THIS YEAR			PAST RECORD	
DRAINAGE BASIN and/or SNOW COURSE		Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)	
NAME	Elevation				Last Year	Average †
<u>ESCALANTE RIVER</u>						
Widtsoe-Escalante Smt.	9500	2/28	20	5.4	4.0	5.3.
Widtsoe-Escalante #2	9500	2/28	29	7.8	7.0	6.8
Widtsoe-Escalante #3	9500	2/28	37	10.7	9.1	8.1b
<u>PARIA RIVER</u>						
Bryce Canyon x	8000	2/28	7	2.0	4.9	2.4b
Rainbow Point x	9100	2/29	15	4.5	- -	- -
<u>VIRGIN RIVER & COAL CREEK</u>						
CSU Ranch	8200	2/25	14	5.8	8.1	- -
Duck Creek R.S.	8700	2/24	34	11.8	11.5	10.2
Harris Flat x	7700	2/24	6	2.6	8.5	6.1
Long Valley Jct.	7500	2/24	0	0.0	2.7	2.2
Midway Valley x	9800	2/25	58	20.9	16.0	16.5b
Urie Flat	8450	2/25	16	6.2	7.9	5.6b
Webster Flat	9200	2/25	40	15.1	14.0	12.2
<u>PAROWAN CREEK</u>						
Birch Crossing	8100	2/24	14	5.7	6.1	- -
Brian Head	10000	2/24	54	18.9	17.2	- -
Ed Ward Flat	8300	2/24	20	6.9	8.2	5.3b
Tall Poles	8800	2/24	41	13.2	12.1	- -
Yankee Reservoir	8700	2/24	28	9.2	9.5	6.9b
<u>ENTERPRISE TO NEW HARMONY DRAINAGES</u>						
Little Grassy Creek	6100	2/28	0	0.0	1.2	2.3b
Long Flat	8000	2/28	5	2.1	3.9	4.3b

PRECIPITATION (Inches)

DRAINAGE BASIN and PRECIPITATION GAGE LOCATION	ELEVATION	CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
		Date of Reading	Month's Precipitation	Average +	This Year	Average +	Percent of Average
ESCALANTE RIVER							
Widtsoe-Escalante #3	9500	2/28	0.35	2.30b	11.69	9.95	117
VIRGIN RIVER							
Duck Creek R.S.	8560	2/24	0.30	3.27b	16.21	13.45*	120
Webster Flat	9200	2/25	0.30	3.53b	17.45	14.82*	118
COAL CREEK							
Webster Flat	9200	2/25	0.30	3.53b	17.45	14.82*	118
PAROWAN CREEK							
Tall Poles	8800	2/24	0.40	- -	13.99	- -	- -
Yankee Reservoir	8700	2/24	- -	2.13b	10.37	8.49	122
ENTERPRISE TO NEW HARMONY DRAINAGE							
Little Grassy Creek	6100	2/28	- -	- -	12.15	- -	- -
Long Flat	8000	2/28	- -	- -	10.14	8.91	114

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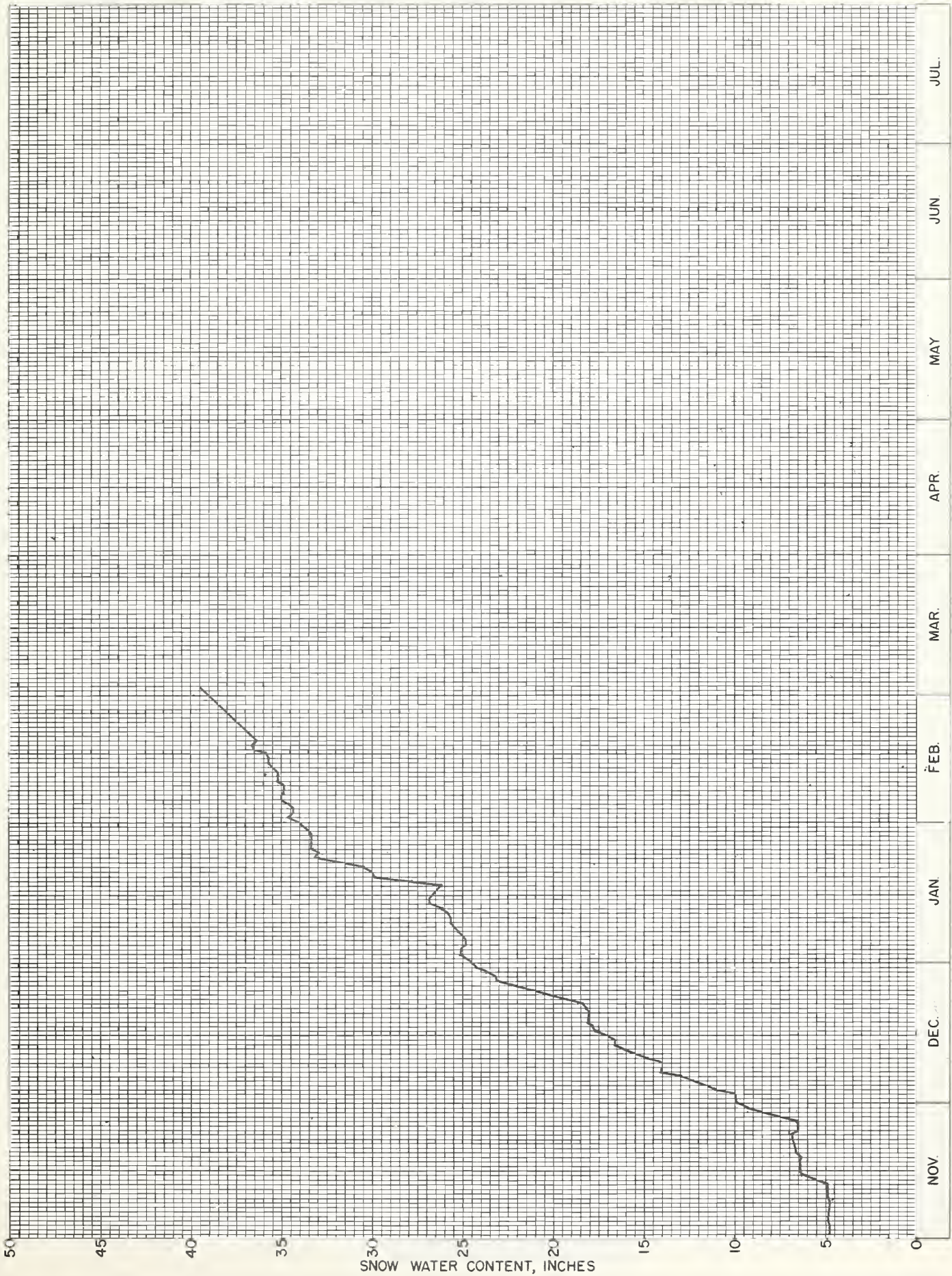
FARMINGTON CANYON (upper)

SNOW PILLOW DATA
WATER YEAR 1972

No. 11J11

Elev. 8000

Drainage: Farmington Creek



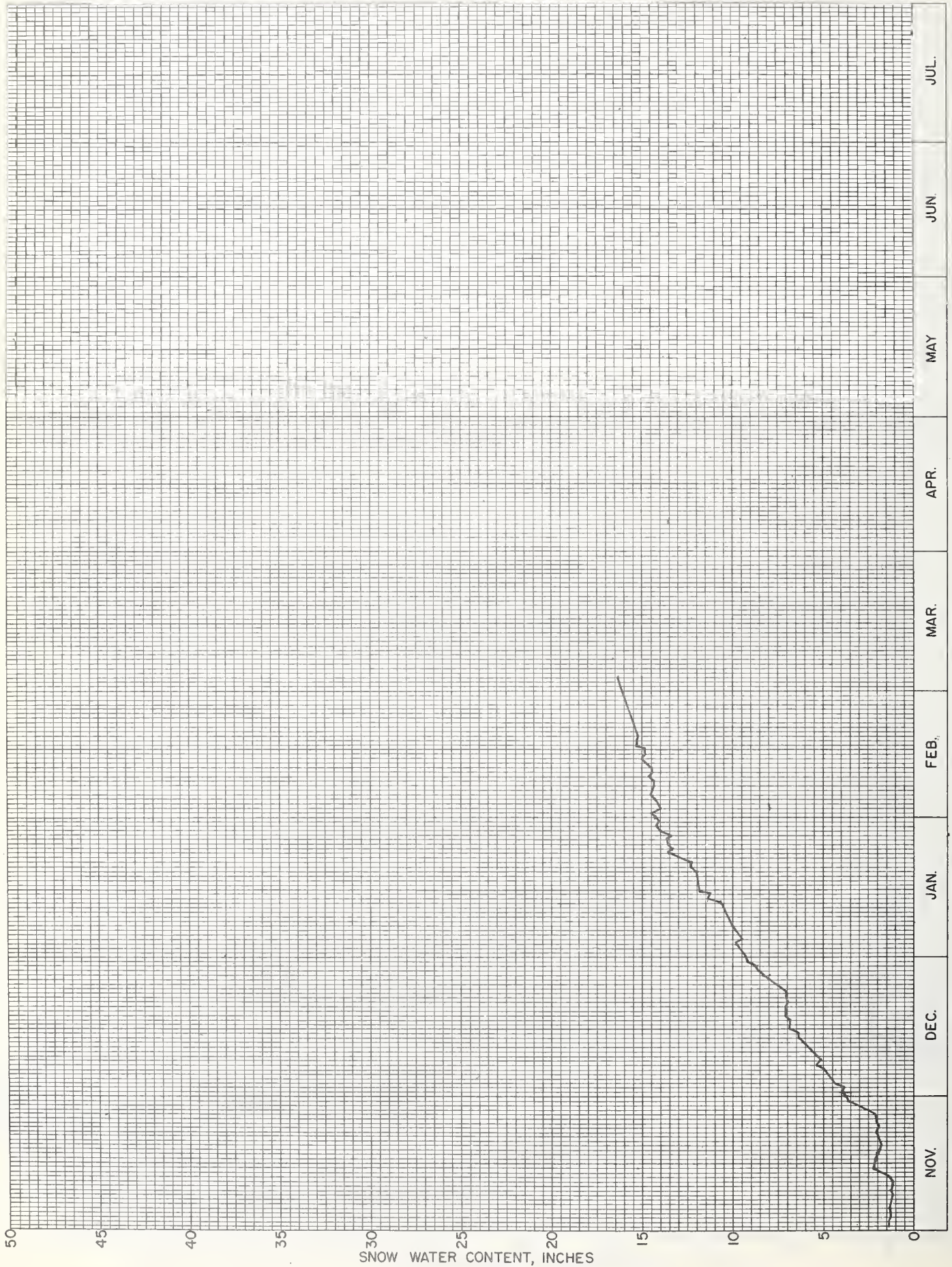
PARLEY'S CANYON SUMMIT

SNOW PILLOW DATA
WATER YEAR 1972

No. 11J15

Elev. 7500

Drainage: East Canyon Crk. - Weber River



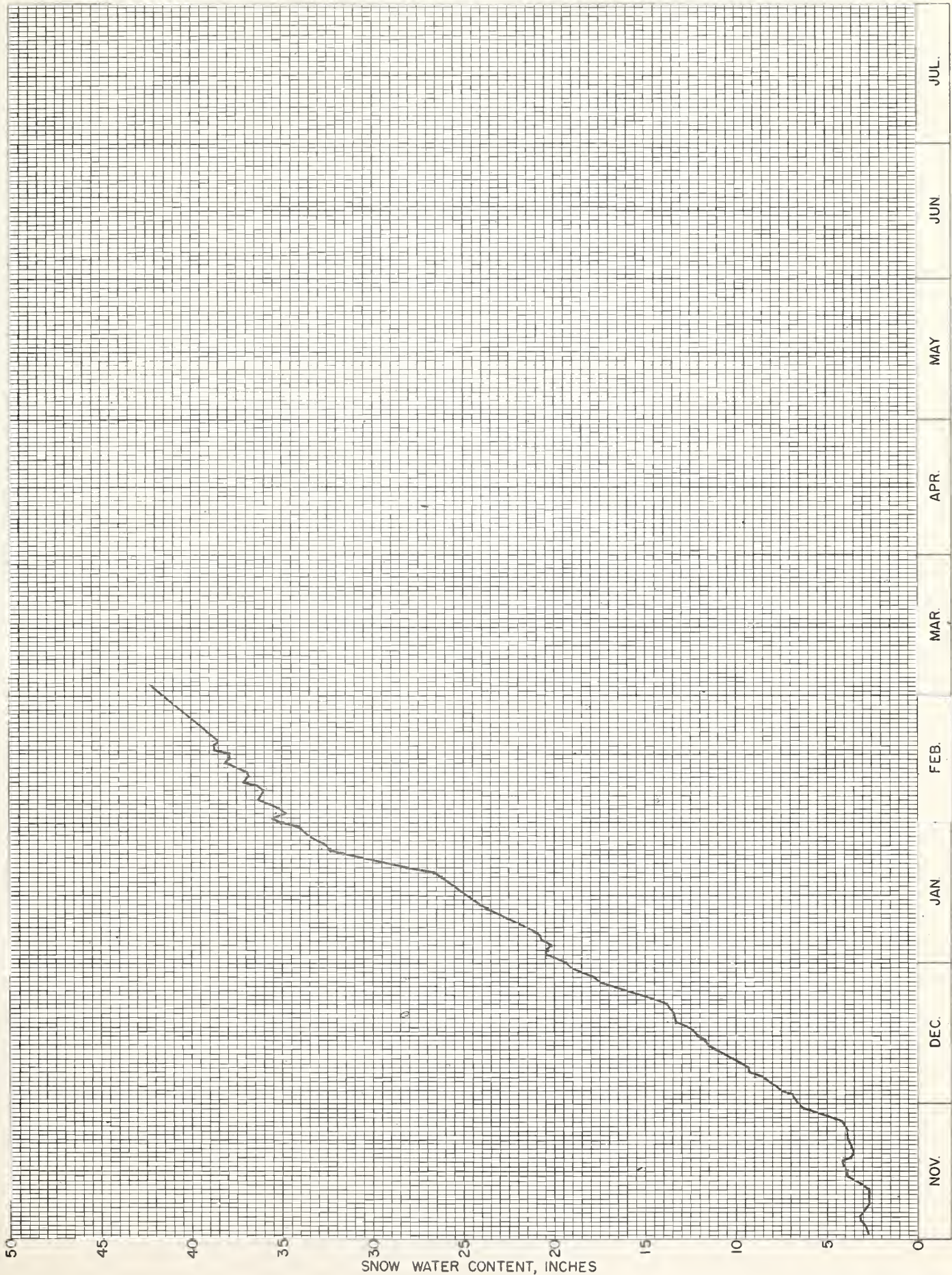
HORSE RIDGE

SNOW PILLOW DATA
WATER YEAR 1972

No. 11H21

Elev. 8260

Drainage: Lost Creek



Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

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